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SOURCE Elektrichestvo, No 10, 1950, p 92.

CONFERENCE ON ECONOMY IN THE USE OF ELECTRIC POWER
BY THE SOVIET PETROLEUM INDUSTRY

I. M. Petrosov, Vice-President,
 Azerbaydzhan Division, All-Union Scientific and
 Technical Society of Power Engineers

The Azerbaydzhan Division of the All-Union Scientific and Technical Society of Power Engineers held a conference with the Azerbaydzhan Division of the All-Union Scientific and Technical Society of Petroleum Engineers in June 1950 to discuss economy in the use of electric power by the petroleum industry.

D. O. Shakhnazarov, Candidate in Technical Sciences, read a report, "Reducing Electric Power Losses and Consumption of Nonferrous Metals in Electric Networks Used for Deep Pumping Operations," describing his new plan for reducing the distance between transformers and load and for changing the layout of the network. This plan is based on the use of short main lines of small cross section supplying three or four deep pumps connected together. The introduction of this plan at two wells belonging to the Azizbekovneft' Trust gave very satisfactory results.

Docent B. M. Plyushch read a report, "Using Large Synchronous Motors for Driving Oil-Well Compressors, and Increasing Network Voltages for Rocker Pumps," in which he proposed a new plan for cutting down capital investments and raising operational power indexes. He emphasized the need for changing to a higher voltage, particularly for oil-well networks supplying rocker-pump motors, and suggested the use of 660 v (380 X $\sqrt{3}$).

Engineer G. M. Stepanov of Orgenergoneft' read a report on "Methods of Establishing Norms for the Specific Consumption of Electric Power by Compressors and Deep Pumps When Extracting Oil."

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V. M. Khiteyev, chief engineer of the Power Sales Administration of Azenergo, read a report entitled "Methods of Saving Electric Power in Enterprises of the Petroleum Industry." He discussed an invention by F. M. Akhundov, Candidate in Technical Sciences, described as "a casing displacement hoist with wire packing." This idea can effect a considerable economy in electric power; however, although it has been under consideration for $1\frac{1}{2}$ years, it has not yet been introduced.

G. A. Dalin of the Stalinneft' Trust described an experimental operation of the DAG system which is to be used for synchronizing induction motors [For power factor improvement].

As a result of the above reports, the conference asked the Ministry of the Petroleum Industry to supply, not later than 1951, the necessary number of electric meters and instrument transformers required for the calculation of specific power consumption in production processes. Participants in the conference resolved to carry out a number of measures for improving power economy in oil wells and urged all power engineers in the Azerbaydzhan SSR to do likewise.

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